



**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**

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 Washington, D.C. 20231

**NOTICE OF ALLOWANCE  
 AND ISSUE FEE DUE**

#18

OBLON, FISHER, SPIVAK,  
 MC CLELLAND & MAIER  
 CRYSTAL SQUARE FIVE-SUITE 400  
 1755 SOUTH JEFFERSON DAVIS HIGHWAY  
 ARLINGTON, VA 22202

The application identified below has been examined and found allowable  
 for issuance of Letters Patent. PROSECUTION ON THE MERITS IS CLOSED.

All communications regarding this application should give the serial number, date of filing, name of applicant, and batch number.

Please direct all communications to the Attention of "OFFICE OF PUBLICATIONS" unless advised to the contrary.

	SC/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED	
	06/930,993	11/14/86	005	BUDD, M	212	02/09/87
First Named Applicant	ISHIYAMA,			KAZUFUMI		

TITLE OF INVENTION CURVILINEAR ARRAY OF ULTRASONIC TRANSDUCERS

	ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEES DUE	DATE DUE
	39-1517-2FWC	310-334.000	V46	UTILITY	NO	\$560.00	05/11/87

The amount of the issue fee is specified in 37 C.F.R. 1.18. If the applicant qualified for and has filed a verified statement of small entity status in accordance with 37 C.F.R. 1.27, the issue fee is one-half the amount for non-small entities. The issue fee due printed above reflects applicant's status as of the time of mailing this notice. A verified statement of small entity status may be filed prior to or with payment of the issue fee. However, in accordance with 37 C.F.R. 1.28, failure to establish status as a small entity prior to or with payment of the issue fee precludes payment of the issue fee in the amount so established for small entities and precludes a refund of any portion thereof paid prior to establishing status as a small entity.

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE as indicated above. The application shall otherwise be regarded as ABANDONED. The issue fee will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the Patent and Trademark Office. Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of the notice of allowance, the issue fee is charged to the deposit account at the time of mailing of this notice in accordance with 37 C.F.R. 1.311. If the issue fee has been so charged, it is indicated above.

In order to minimize delays in the issuance of a patent based on this application, **this Notice may have been mailed prior to completion of final processing**. The nature and/or extent of the remaining revision or processing requirements may cause slight delays of the patent. In addition, **if prosecution is to be reopened, this Notice of Allowance will be vacated and the appropriate Office action will follow in due course**. If the issue fee has already been paid and prosecution is reopened, the applicant may request a refund or request that the fee be credited to a deposit account. However, applicant may request that the previously submitted issue fee be applied. If abandoned, applicant may request refund or credit to a deposit account.

In the case of each patent issuing without an assignment, the complete post office address of the inventor(s) will be printed in the patent heading and in the Official Gazette. If the inventor's address is now different from the address which appears in the application, please fill in the information in the spaces provided on PTOL-85b enclosed. If there are address changes for more than two inventors, enter the additional addresses on the reverse side of the PTOL-85b.

The appropriate spaces in the ASSIGNMENT DATA section of PTOL-85b must be completed in all cases. If it is desired to have the patent issue to an assignee, an assignment must have been previously submitted to the Patent and Trademark Office or must be submitted not later than the date of payment of the issue fee as required by 37 C.F.R. 1.334. Where there is an assignment, the assignee's name and address must be provided on the PTOL-85b to ensure its inclusion in the printed patent.

Advance orders for 10 or more printed copies of the prospective patent can be made by completing the information in Section 4 of PTOL-85b and submitting payment therewith. If use of a deposit account is being authorized for payment, PTOL-85c should also be forwarded. The order must be for at least 10 copies and must accompany the issue fee. The copies ordered will be sent only to the address specified in section 1 or 1A of PTOL-85b.

Note attached communication from the Examiner.

This notice is issued in view of  
 applicant's communication filed \_\_\_\_\_

**IMPORTANT REMINDER**

Patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. See 37 CFR 1.20 (e) - (j).



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SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
06/930,993	11/14/86	ISHIYAMA	K 39-1517-2FWC

OBILON, FISHER, SPIVAK,  
MC CLELLAND & MAIER  
CRYSTAL SQUARE FIVE-SUITE 400  
1755 SOUTH JEFFERSON DAVIS HIGHWAY  
ARLINGTON, VA 22202

EXAMINER	
BUDD, M	
ART UNIT	PAPER NUMBER
212	

DATE MAILED:

02/09/87

## NOTICE OF ALLOWABILITY

## PART I.

- This communication is responsive to \_\_\_\_\_.
- All the claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice Of Allowance And Issue Fee Due or other appropriate communication will be sent in due course.
- The allowed claims are 1,5 and 8-10.
- The drawings filed on \_\_\_\_\_ are acceptable.
- Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has been received. not been received.  been filed in parent application Serial No. 679 058, filed on 12-6-84.
- Note the attached Examiner's Amendment.
- Note the attached Examiner Interview Summary Record, PTOL-413.
- Note the attached Examiner's Statement of Reasons for Allowance.
- Note the attached NOTICE OF REFERENCES CITED, PTO-892.
- Note the attached INFORMATION DISCLOSURE CITATION, PTO-1449.

## PART II.

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" indicated on this form. Failure to timely comply will result in the ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.
- APPLICANT MUST MAKE THE DRAWING CHANGES INDICATED BELOW IN THE MANNER SET FORTH ON THE REVERSE SIDE OF THIS PAPER.
  - Drawing informalities are indicated on the NOTICE RE PATENT DRAWINGS, PTO-948, attached hereto or to Paper No. \_\_\_\_\_. CORRECTION IS REQUIRED.
  - The proposed drawing correction filed on \_\_\_\_\_ has been approved by the examiner. CORRECTION IS REQUIRED.
  - Approved drawing corrections are described by the examiner in the attached EXAMINER'S AMENDMENT. CORRECTION IS REQUIRED.
  - Formal drawings are now REQUIRED.

Any response to this letter should include in the upper right hand corner, the following information from the NOTICE OF ALLOWANCE AND ISSUE FEE DUE: ISSUE BATCH NUMBER, DATE OF THE NOTICE OF ALLOWANCE, AND SERIAL NUMBER.

## Attachments:

Examiner's Amendment  
 Examiner Interview Summary Record, PTOL- 413  
 Reasons for Allowance  
 Notice of References Cited, PTO-892  
 Information Disclosure Citation, PTO-1449

Notice of Informal Application, PTO-152  
 Notice re Patent Drawings, PTO-948  
 Listing of Bonded Draftsmen  
 Other



MARK O. BUDD  
PRIMARY EXAMINER  
ART UNIT 212

Serial No. 930,993

-2-

Art Unit 212

This application is in condition for allowance except for the presence of claim 7 to an invention nonelected without traverse. Accordingly, claim 7 (has/have) been canceled.

Budd/sb

703-557-48 62

703-557-2-6-87

  
MARK O. BUDD  
PRIMARY EXAMINER  
ART UNIT 212